



Scheduled Services



PMCS

**PREVENTIVE
MAINTENANCE**

CHECKS AND SERVICES



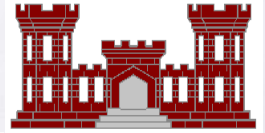
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Action:	Identify the purpose of the PMCS program, types of PMCS, and the intervals for each type.
Conditions:	With TM's, LI's, in a classroom environment
Standard:	Identify the purpose, types, and intervals of PMCS IAW applicable TM's and LI's.
Safety Req.	None
Risk Assessment Level:	Low
Environmental	None



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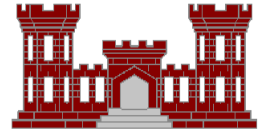


Purpose of the PMCS Program

Types and Intervals of PMCS



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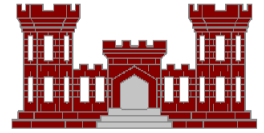


Preventive Maintenance Checks and Service:

is the application of systematic procedures for inspection, detection, and correction of incipient failures before they develop into major defects.



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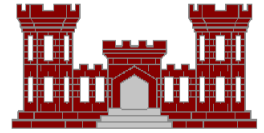


Operators perform:

- **Before:** prior to operating the equipment.
- **During:** while the equipment is in operation.
- **After:**.. after operating the equipment
- **Weekly:** once a week
- **Monthly:** once a month
- **Hourly:** As Needed



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Mechanics perform Organizational PMCS which consists of the following:

- **Inspections, checks, services, adjustments, removal and installation of parts, testing, trouble-shooting and ordering parts.**
- **Operators perform operator PMCS .**



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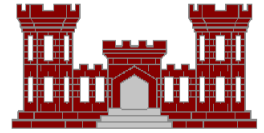


Preventive Maintenance Checks and Services table

- **Table 2-1 Operators daily checks and services**
Before, During, and After Operation Checks
- **Table 3-3 Lubrication and Maint. Chart**
What services are required and at what interval
- **Table 4-2 Maintenance Checklist**
Lists Intervals and procedures, and also what Paragraph the procedure is listed under



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NOTES

- **If you identify a discrepancy that can not be fixed, write it on your inspection form, (NAVMC 10560) If you find a major discrepancy during the inspection, report it to your direct supervisor.**



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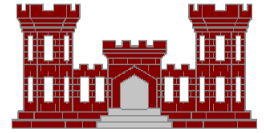


Interval for PMCS and Services

- **Annual: once every year. 2000 Hours**
- **Hourly: interval listed in the hour column.**



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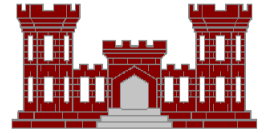


Notes

- **When performing PMCS refer to the proper Technical Manual to perform any scheduled service on a piece of engineer equipment.**



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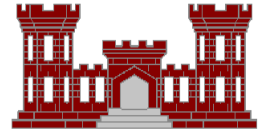


Leak Classification

- **Class 1:** Seepage of fluid (as indicated by wetness or discoloration) not great enough to form drops.
- **Class 2:** Leakage of fluid great enough to form drops, but not enough to cause drops to drip from the item being inspected.
- **Class 3:** Leakage of fluid great enough to form drops that fall from the item being inspected.



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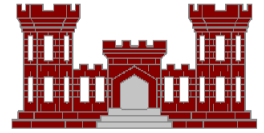


Notes

- **Equipment operation is allowable with minor leakage (Class 1 or 2) of course consideration must be given to the fluid capacity in the system being inspected. Class 3 leaks should be corrected immediately or reported to your supervisor.**



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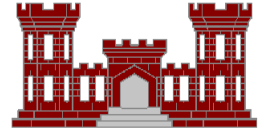
Items needed to perform PMCS:

- **Mechanics need to have the vehicles lube order, TM, LTI Sheet (NAVMC 10560), proper tools, and safety equipment.**

(PPE)



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When performing PMCS read all:

- **Warnings:** for your safety and for the safety of others, also to prevent damage to your equipment.
- **Cautions:** for your safety and the safety of others.
- **Technical Manuals:** Each piece of equipment has different types of checks, services, adjustments, testing and trouble-shooting procedures.
- Use the correct technical manual for the equipment you are working on.



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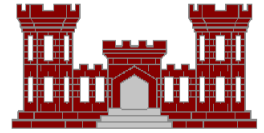


You are performing a “BEFORE” operation check, some of the things you look for in a 360 degree walk-around is:

- Inspect for any damages, shortcomings, or deficiencies.**
- If any are found annotate it on your LTI SHEET.**



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**Common checks included in a
“During” inspection are:**

- **Warning indicator lights and buzzers**
- **all gauges, air pressures, hour meter, voltmeter, and tachometer**
- **transmission control levers**
- **service and park brakes.**



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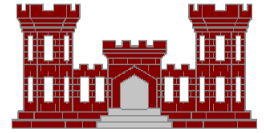


Common checks that are included in a “AFTER” inspection:

- **Top off fuel tanks**
- **drain air tanks**
- **check fluid levels**
- **360° walk-around (damage)**



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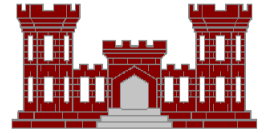


The difference between a operators PMCS and the organizational PMCS are:

- **Operators perform visual checks.**
- **Mechanics perform hands-on checks.**



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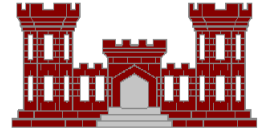


Scheduled services are usually performed by:

- **Mechanics at Organizational level**
- **Assisted by the Operators**



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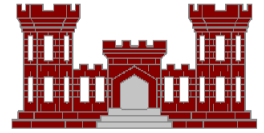


What are some of the reasons for performing schedule services?

- **1. Combat readiness**
- **2. Identification of deficiencies**
- **3. Extend life expectancies**
- **4. Safety**



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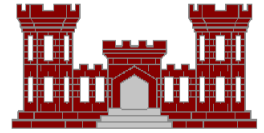


When performing schedule services you will need:

- **Organizational maintenance manual, lube order, mechanics tool box, inspection form, and safety equipment.**
- **NAVMC 10560 Limited Technical Inspection sheet.**



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The purpose of the lube order is:

- **A condensed guide of all services required at prescribed intervals.**
- **The intervals and the related man hour times are based on normal operation.**



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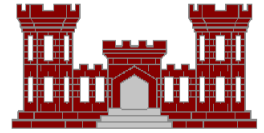


Lube order can be used to:

- **Indicate Crew 1st Echelon (C)**
- **Organizational maintenance (O)**
- **man hour time specified**
- **type of lubrication**
- **refill capacities**
- **expected temperatures**



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Dash arrows on the lube order indicates:

- **Lubrication on both sides of the equipment.**



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Visual Signals

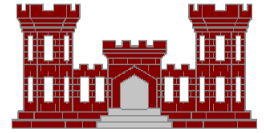
What is the purpose for visual signals?

- To control the vehicles driver and crew
- safety





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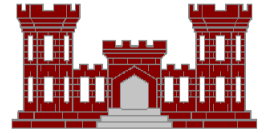


What are different types of visual signals?

- **Hand and arms and light signals**
- **Flashlights are used at night to direct vehicles**
- **Blue filters should be used whenever possible in order to preserve the drivers night vision.**



JOAP

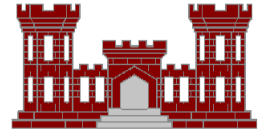


JOAP program is used to:

- **Improve equipment reliability and readiness by early detection of potential failures.**



JOAP

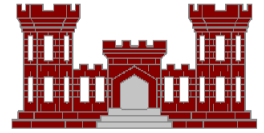


The word JOAP means:

- **(J) joint**
- **(O) oil**
- **(A) analysis**
- **(P) program**



JOAP

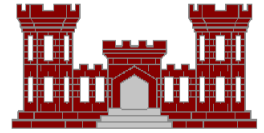


The components that must be sampled are:

- **1. Engine**
- **2. Transmission**
- **3. Hydraulic system**
- **4. Final drive**

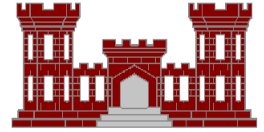


JOAP



The materials needed to perform a JOAP sampling are:

- **sampling valve**
- **vampire pump**
- **plastic tubing**
- **plastic sampling bottles**



THAT'S PMCS